



COLOUR TELEVISION

SP43T6/48T6/54T6/62T6
SP47W3/55W3/65W3

Owner's Instructions

Before operating the unit,
please read this manual thoroughly,
and retain it for future reference.

REMOTE CONTROL
ON-SCREEN MENUS
PERFECT FOCUS
PICTURE IN PICTURE
TELETEXT (depending on the model)

Important Warranty Information Regarding Television Format Viewing

Standard screen format televisions (4:3, the aspect ratio of the screen width to height) are primarily designed to view standard format full-motion video. The images displayed on them should primarily be in the standard 4:3 ratio format and constantly moving. Displaying stationary graphics and images on screen, such as the dark top and bottom letterbox bars (wide screen pictures), should be limited to no more than 15% of the total television viewing per week.

Wide screen format televisions (16:9, the aspect ratio of the screen width to height) are primarily designed to view wide screen format full-motion video. The images displayed on them should primarily be in the wide screen 16:9 ratio format, or expanded to fill the screen if your model offers this feature, and constantly moving. Displaying stationary graphics and images on screen, such as the dark side-bars on non-expanded standard format television video and programming, should be limited to no more than 15% of the total television viewing per week.

Additionally, viewing other stationary images and text such as stock market reports, video game displays, station logos, web sites or computer graphics and patterns, should be limited as described above for all televisions. *Displaying any stationary images that exceed the above guidelines can cause uneven aging of picture tubes (CRTs) that leave subtle, but permanent burned-in ghost images in the television picture. To avoid this, vary the programming and images, and primarily display full screen moving images, not stationary patterns or dark bars.* On television models that offer picture sizing features, use these controls to view the different formats as a full screen picture.

Be careful in the selection and duration of television formats used for viewing. Uneven CRT aging as a result of format selection and use, as well as other burned-in images, is not covered by your Samsung limited warranty.

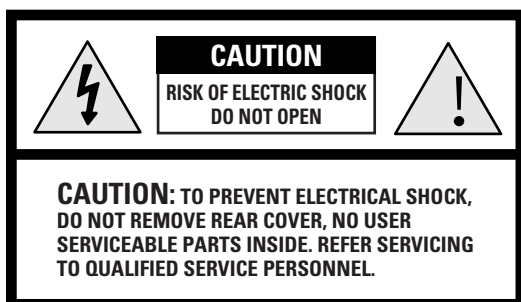
Safety Instructions

ENG

- ◆ *Do not expose the television to extreme temperature conditions or to extreme humidity conditions.*
- ◆ *Do not expose the television to direct sunlight and other sources of heat.*
- ◆ *Do not expose the television to any liquids.*
- ◆ *Never put objects of any kind into the television, and do not place a water-containing vessel on the television.*
- ◆ *During a storm conditions (especially when there is lightning) unplug the television from the mains socket and aerial.*
- ◆ *Do not step on or twist the power cord.*
- ◆ *Do not overload wall outlets or extension cords as this can result in a risk of fire or electric shock.*
- ◆ *Please use a soft and dry cloth (not containing volatile matter) when you clean the TV.*
- ◆ *If the television is broken, do not try to repair it yourself. Contact qualified service personnel.*
- ◆ *If the remote control is not used for a long period of time, remove the batteries and store it in a cool, dry place.*
- ◆ *Do not drop the remote control.*

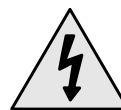
 *This device is not for use in industrial environments.*

Caution



WARNING: TO PREVENT DAMAGE WHICH MAY RESULT IN FIRE OR SHOCK HAZARD. DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

The lightning flash and arrow head within the triangle is a warning sign alerting you of "dangerous voltage" inside the product.



The exclamation point within the triangle is a warning sign alerting you of important instructions accompanying the product.



The main voltage is indicated on the rear of the TV set and the frequency is 50 or 60Hz.

Contents (continued)

◆ PREPARING YOUR TELEVISION

■ Safety Instructions	3
■ Caution	3
■ Front Control Panels.....	6
■ Front or Side Connection Panels.....	7
■ Rear Connection Panel	8
■ Infrared Remote Control	9
■ Inserting the Batteries in the Remote Control.....	10
■ Connecting the Aerial (or Cable Television Network).....	11
■ Switching Your Television On and Off.....	12
■ Placing Your Television in Standby mode.....	12
■ Plug & Play Feature.....	13
■ Adjusting Basic Convergence.....	14
■ Using the Perfect Focus Feature	15
■ Choosing Your Language.....	16

◆ SETTING UP THE CHANNELS

■ Storing the Channels Automatically.....	17
■ Storing the Channels Manually.....	18
■ Skipping Unwanted Channels	19
■ Fine tuning Channel Reception	20
■ Sorting the Stored Channels	21

◆ USING THE TELEVISION (continued)

■ Changing the Picture Standard	22
■ Selecting the Picture Format	22
■ Adjusting the Picture Settings.....	23
■ Activation/Deactivation the Digital Noise Reduction Feature	24
■ Setting the Blue Screen Mode.....	24
■ Using the Natural Scan Feature	25
■ Using the LNA (Low Noise Amplifier) Feature.....	25
■ Adjusting the Volume.....	26
■ Changing the Sound Standard	26
■ Adjusting the Sound Settings	27
■ Extra Sound Settings (Auto volume/Melody).....	28
■ Setting the Dolby ProLogic.....	29
■ Selecting the Sound Mode (depending on the model)	30
■ Switching the Sound Off Temporarily.....	30

Contents

◆ USING THE TELEVISION	
■ Setting the Sleep Timer	31
■ Setting and Displaying the Current Time	31
■ Switching the Television On and Off Automatically	32
■ Setting up your Remote Control	33
■ Picture In Picture	34
◆ USING THE TELETEXT FEATURE (depending on the model)	
■ Teletext Feature	36
■ Displaying the Teletext Screen	37
■ Selecting Display Options	38
■ Selecting a Teletext Page	39
◆ INFORMATION ON CONNECTIONS AND RECOMMENDATIONS FOR USE	
■ Setting up your PC (depending on the model)	40
■ Changing the Screen Size or Position of your PC	41
■ Connecting to the PC Input	41
■ Connecting to the AV Input/Outputs	42
■ Connecting to the AV Input	42
■ Connecting to the DVD Input	43
■ Connecting to the S-Video Input	43
■ Connecting to the Audio Output	44
■ Viewing Picture From External Sources	44
■ Automatic Degaussing to Remove Colour Patches	45
■ Trouble Shooting: Before Contacting Service Personnel	45

Symbols



Press



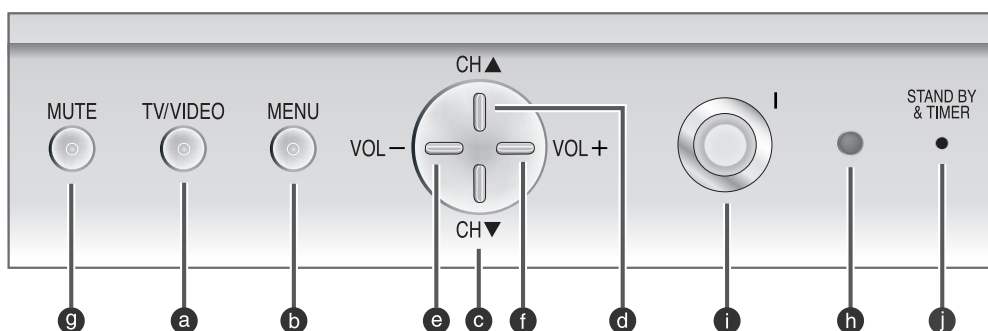
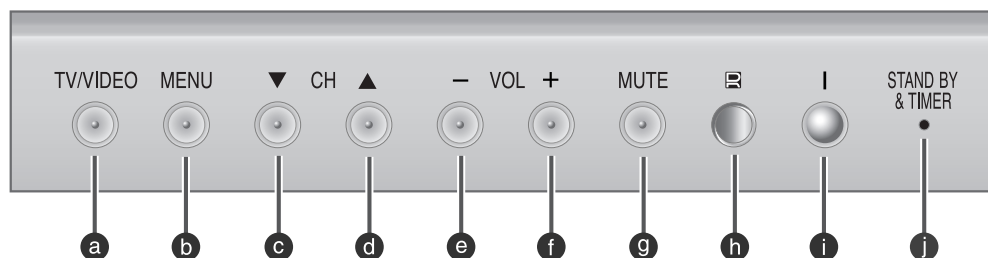
Important



Note

Front Control Panels

➤ The actual configuration on your TV may be different, depending on your model.

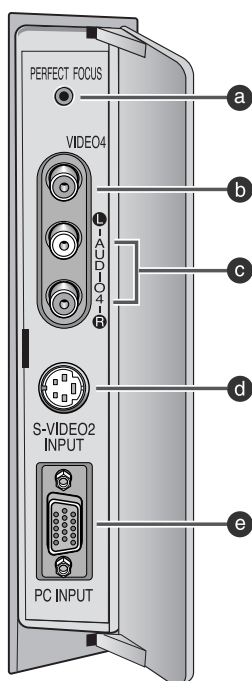
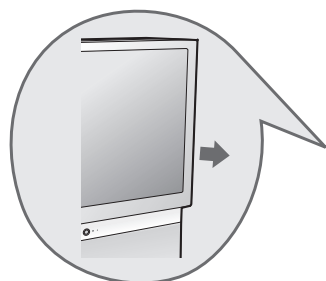
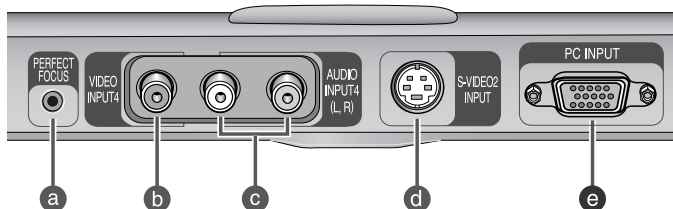
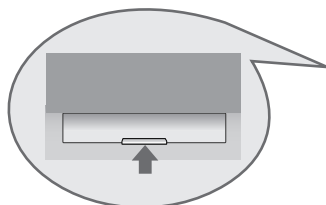


- | | |
|-------------------------------|-------------------------------|
| a) Source Selection | f) Volume Increase |
| b) Menu Display | g) Temporary Sound Switch-Off |
| c) Previous Channel Selection | h) Remote Control Sensor |
| d) Next Channel Selection | i) Power |
| e) Volume Decrease | j) Stand by & Timer Indicator |

Front or Side Connection Panels

- The actual configuration on your TV may be different, depending on your model.

ENG

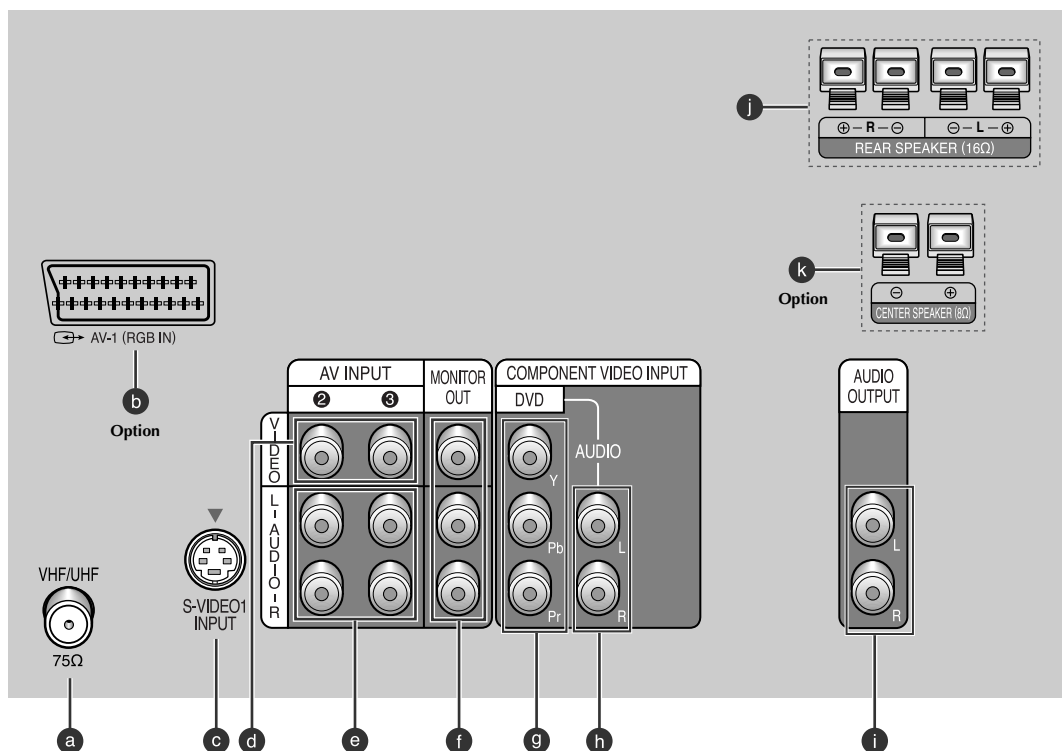


- a) Perfect Focus
- b) Video Input
- c) Audio Inputs (L, R)
- d) S-Video Input
- e) PC Input

Rear Connection Panel



The actual configuration on your TV may be different, depending on the model.

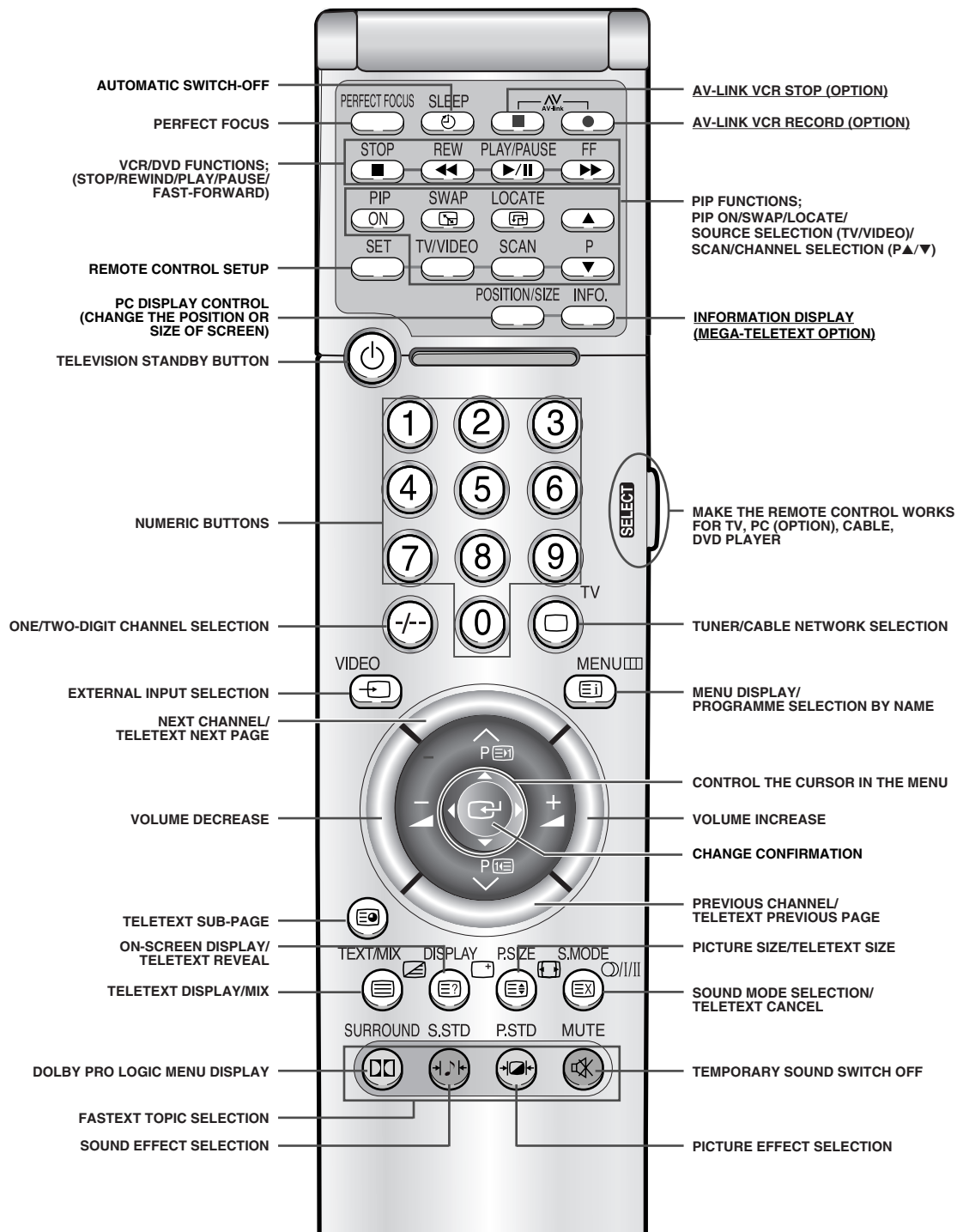


- | | |
|---|--|
| a) 75Ω Coaxial connector for Aerial/Cable network | f) Audio/Video Monitor Outputs |
| b) Audio/Video Input/Output | g) DVD Video Inputs |
| c) S-Video Input | h) DVD Audio Inputs |
| d) Video Inputs | i, j, k) Audio Outputs (Dolby Pro logic) |
| e) Audio Inputs | |

Infrared Remote Control

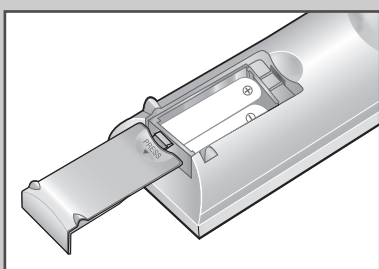
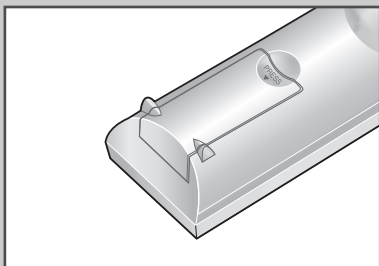
➤ Buttons and markings are subject to change.

ENG



➤ The performance of the remote control may be affected by bright light.

Inserting the Batteries in the Remote Control



You must insert or replace the batteries in the remote control when you :

- ◆ *Purchase the television.*
- ◆ *Find that the remote control is no longer operating correctly.*

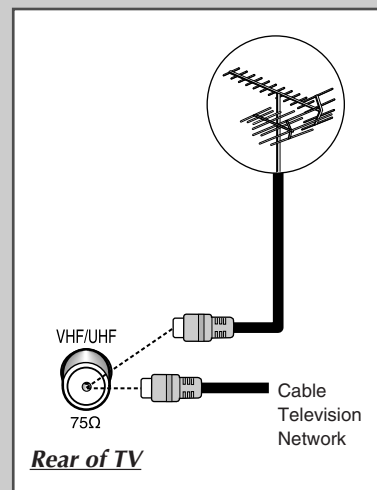
- 1** Remove the cover of the remote control by pressing the symbol (PRESS) and pulling the cover in the direction of the arrow.
- 2** Insert batteries, taking care to respect the polarities:
 - ◆ + on the battery with + on the remote control
 - ◆ - on the battery with - on the remote control
- 3** Replace the cover by pushing it in the direction of the arrow.

Connecting the Aerial (or Cable Television Network)

To view television channels correctly, a signal must be received by the set from one of the following sources:

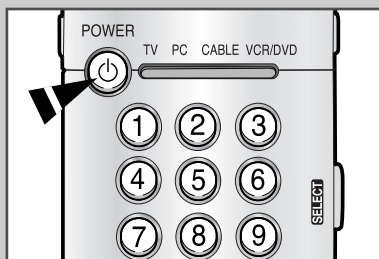
- ◆ *An outdoor aerial*
- ◆ *A cable television network*

Plug the aerial or cable network input cable to the 75Ω coaxial socket on the rear of the television.



ENG

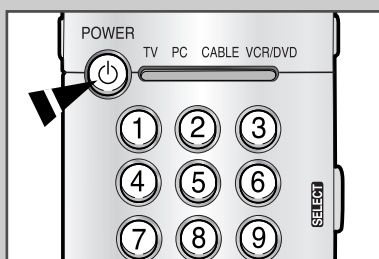
Switching Your Television On and Off



The mains lead is attached to the rear of the television.

- 1 Plug the mains lead into an appropriate socket.
➤ The main voltage is indicated on the rear of the TV set and the frequency is 50 or 60Hz.
- 2 Press the "I" (ON/OFF) button on the front of the television.
Result: The Standby indicator lights up on the front panel.
- 3 Press the **POWER** button on the remote control to switch the television on.
Result: The programme that you were watching last is re-selected automatically.
- 4 To switch your television off, press the "I" (ON/OFF) button again on the front of the television.

Placing Your Television in Standby mode



Your television can be placed in Standby mode, in order to reduce:

- ◆ *Power consumption*
- ◆ *Wear of the cathode ray tube*

The Standby mode can be useful when you wish to interrupt viewing temporarily (during a meal, for example).





The television is placed automatically in Standby mode when you turn it on.

- 1 Press the **POWER** button on the remote control.
Result: The screen is turned off and the Standby indicator on the front of the television lights up.
- 2 To switch the screen back on, simply press the **POWER** button again on the remote control.

- Do not leave your television in standby mode for long periods of time (when you are away on holiday, for example). In this case, you should switch it off completely.

Plug & Play Feature

When the television is initially powered ON, three basic customer settings proceed automatically and subsequently: setting the language, channel and clock.

- 1 If the television is in Standby mode, press the **POWER**  button on the remote control.
Result: The message **PLUG & PLAY** is displayed. It flickers for a little while and then the **LANGUAGE** menu is automatically displayed.
- 2 Move the joystick up or down to select required language. Press the **MENU**  button to enter the language, and then the message **ANT. INPUT : CHECK** is displayed.
 ➤ If any language is not selected on the **LANGUAGE** menu, the **LANGUAGE** menu will be displayed about 30 seconds later.
- 3 Make sure that the antenna is connected to the TV. And move the joystick left or right.
Result: The **AUTO STORE** menu is displayed.
- 4 Select your area by moving the joystick left or right. The following areas are available: **ASIA/W.EUROPE - CIS/E.EUROPE - CHINA - HONGKONG/UK - AUSTRALIA - NZ/INDONESIA - SOUTH AFRICA - AMERICA**.
- 5 To search the channels, select the **SEARCH** by moving the joystick up or down, and then move the joystick left or right (refer to "Storing the Channels Automatically" on page 17). Press the **MENU**  button to skip.
Result: The **TIME** menu is displayed.
- 6 Move the joystick left or right to move to the hour or minute. Set the hour or minute by moving the joystick up or down (refer to "Setting and Displaying the Current Time" on page 31).
- 7 When you have finished, press the **MENU**  button.
Result: The message **ENJOY YOUR WATCHING** is displayed, and then the channel which has been stored will be activated.

ENG

PLUG & PLAY

ANT. INPUT : CHECK

SELECT EXIT

AUTO STORE

AREA : ASIA/W.EUROPE
 SEARCH : -/+

SELECT ADJUST EXIT

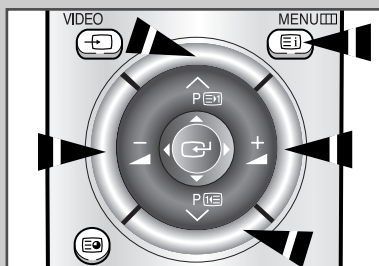
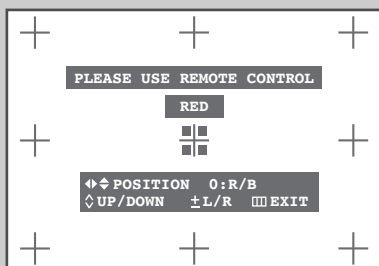
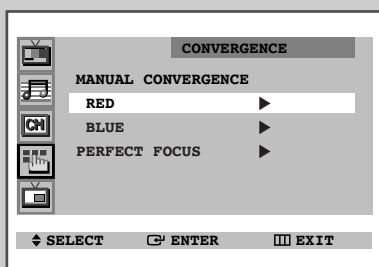
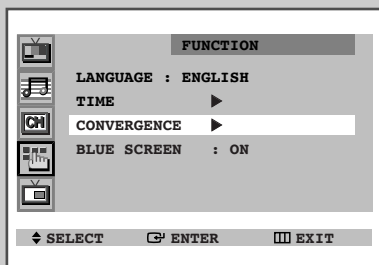
TIME

CLOCK : -- : -- AM
 TIMER : OFF

SELECT ADJUST EXIT

ENJOY YOUR WATCHING

Adjusting Basic Convergence



If the color appears spread out or “smeared” on the screen, the convergence probably needs alignment. Be sure to use the remote control for the convergence adjustments. (The Convergence Adjustment can not be made by using the control buttons on the front panel.)

- 1 Press the **MENU** button.
Result: The main menu is displayed.
 - 2 Move the joystick up or down until the **FUNCTION** is selected and press the joystick () button.
Result: The **FUNCTION** menu is displayed.
 - 3 Move the joystick up or down until the **CONVERGENCE** is selected and press the joystick () button.
Result: The **CONVERGENCE** menu is displayed with the **RED** selected.
 - 4 Press the joystick () button again.
Result: A crosshair pattern will appear on the screen.
 - 5 Adjust convergence by using your remote control.
 - If a horizontal red line is visible, use **P** and **P** buttons to move the line so that it is superimposed on the horizontal center-line (i.e., make a signal horizontal line that is as white as possible).
 - If a vertical red line is visible, use **▲** and **▼** buttons to move the line so that it is superimposed on the vertical center-line (i.e., make a signal vertical line that is as white as possible).
 - 6 For blue adjustment, do the same as the above.
 - 7 After the blue convergence is correctly adjusted, press the **MENU** button repeatedly to return to normal viewing.
- Since the center convergence adjustments can not be done after completing the side convergence adjustments, do the center convergence adjustments first.

Using the Perfect Focus Feature

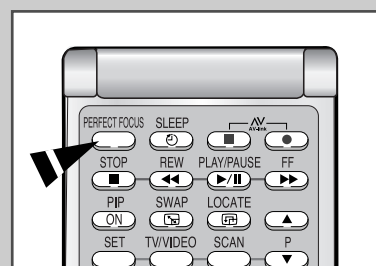
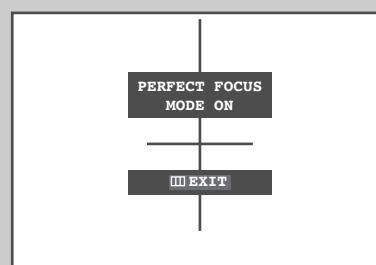
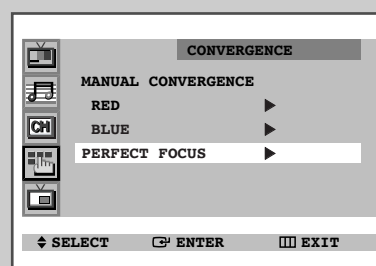
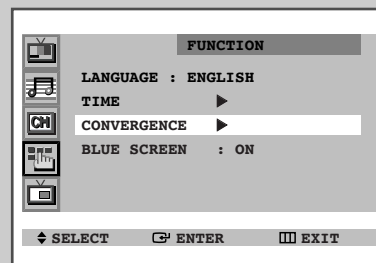
When the picture size is distorted after moving the set, use the Perfect Focus feature to adjust for the optimum picture size set in the factory.

- 1 Press the **MENU** button.
Result: The main menu is displayed.
- 2 Move the joystick up or down until the **FUNCTION** is selected and press the joystick (ENTER) button.
Result: The **FUNCTION** menu is displayed.
- 3 Move the joystick up or down until the **CONVERGENCE** is selected and press the joystick (ENTER) button.
Result: The **CONVERGENCE** menu is displayed.
- 4 Move the joystick up or down until the **PERFECT FOCUS** is selected and press the joystick (ENTER) button.
Result: Perform Perfect Focus in the following sequence:
green → red → blue.
The Perfect Focus feature ends after the cursor flickers for one second.
- 5 Press the **MENU** button repeatedly to return to normal viewing.

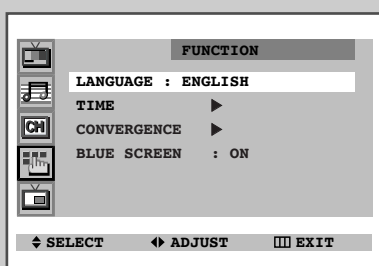
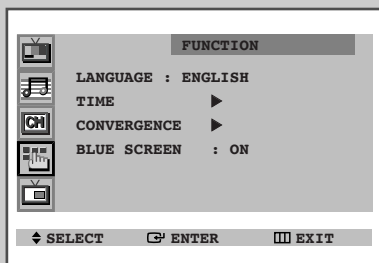
➤ You can use the Perfect Focus feature by simply pressing the **PERFECT FOCUS** button on the remote control.

-
- ◆ If any error happens during Perfect Focus, then perform Perfect Focus once again.
 - ◆ If you can not make adjustments after Perfect Focus, then make manual adjustments. Still you can not make adjustments, contact your Service Center.
 - ◆ If Perfect Focus operates by a wrong use of remote control, then press the **MENU** button to exit.

ENG



Choosing Your Language



When you start using your television for the first time, you must select the language which will be used for displaying menus and indications.

- 1 Press the **MENU** button.
Result: The main menu is displayed.
- 2 Move the joystick up or down until the **FUNCTION** is selected and press the joystick (**ENTER**) button.
Result: The **FUNCTION** menu is displayed with the **LANGUAGE** selected.
- 4 Select a particular language by moving the joystick left or right repeatedly.
- 5 When you have finished, press the **TV** button, or press the **MENU** button repeatedly to return to normal viewing.

➤ You can choose only English according to location.

Storing the Channels Automatically

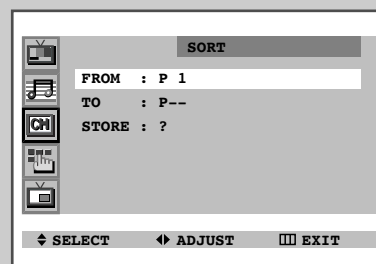
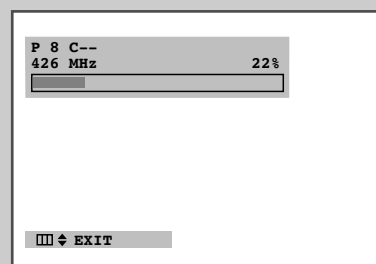
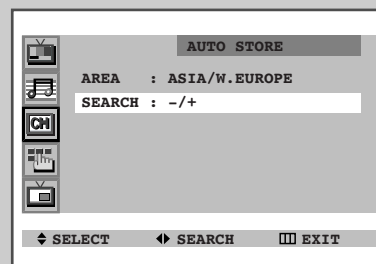
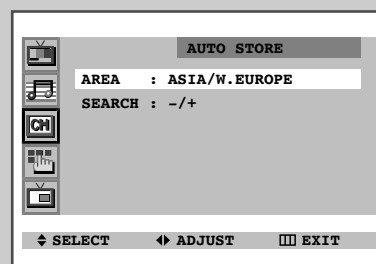
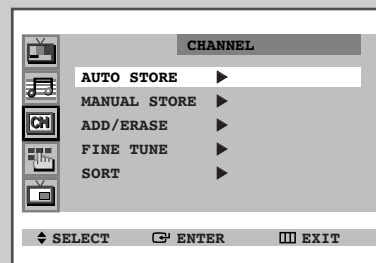
You can scan the frequency ranges available on your television and in your area and store all the channels found automatically.

The channels are stored in the order in which they appear in the frequency bands. It is possible that the automatically allocated numbers may not correspond to those by which you wish to identify the channels. If this is the case, refer to "Sorting the Stored Channels" on page 21.

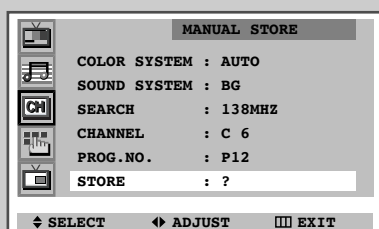
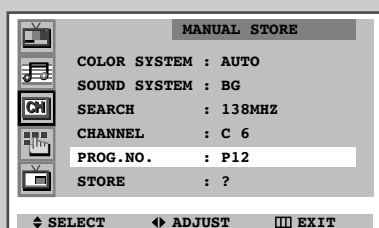
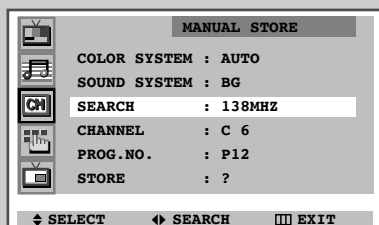
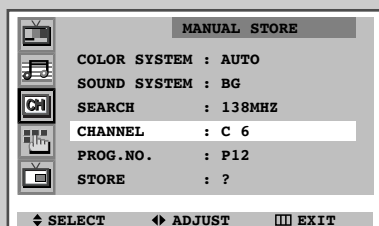
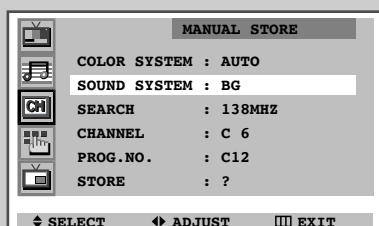
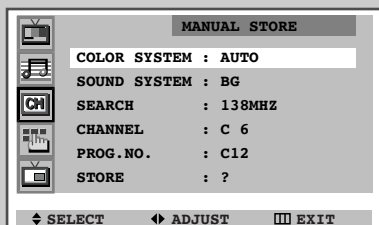
- Press the **MENU** button.
Result: The main menu is displayed.
- Move the joystick up or down until the **CHANNEL** is selected and press the joystick (ENTER) button.
Result: The **CHANNEL** menu is displayed with the **AUTO STORE** selected.
- Press the joystick (ENTER) button again.
Result: The **AUTO STORE** menu is displayed with the **AREA** selected.
- Select your area by moving the joystick left or right. The following countries are available: **ASIA/W. EUROPE** - **CIS/E. EUROPE** - **CHINA** - **HONGKONG/UK** - **AUSTRALIA** - **NZ/INDONESIA** - **SOUTH AFRICA** - **AMERICA**.
- Move the joystick up or down until the **SEARCH** is selected and move the joystick left or right.
Result: The horizontal bar is displayed, and then channels are stored in an order which reflects their positions in the frequency range. Finally, the search will end automatically.
- When searching and storing is complete, the **SORT** menu is displayed.

To...	Then...
Sort the stored channels into the desired numerical order	Go to Step 4 of the "Sorting the Stored Channels" procedure on page 21.
Exit the channel store function without sorting the channels	Press the MENU button repeatedly until the menus disappear.

ENG



Storing the Channels Manually



When storing channels manually, you can choose:

- ◆ Whether or not to store each of the channels found.
- ◆ The number by which you wish to identify each stored channel.

- 1 Press the **MENU** button.
Result: The main menu is displayed.
- 2 Move the joystick up or down until the **CHANNEL** is selected and press the joystick (**↵**) button.
Result: The **CHANNEL** menu is displayed.
- 3 Move the joystick up or down until the **MANUAL STORE** is selected and press the joystick (**↵**) button.
Result: The **MANUAL STORE** menu is displayed with the **COLOR SYSTEM** selected.
- 4 If necessary, indicate the broadcasting standard required by moving the joystick left or right.
Result: The color standards are displayed in the following order.

AUTO → PAL → SECAM → NT4.43 → NT3.58

↑
↑

➤ **NT4.43** is a “trick” playback mode used by special VCR’s to play PAL-recorded videos in NTSC mode.
- 5 Move the joystick up or down until the **SOUND SYSTEM** is selected and move the joystick left or right.
Result: The sound standards are displayed in the following order.

BG → DK → I → M

↑
↑
- 6

If you...	Move the joystick...
Know the number of the channel to be stored	<ul style="list-style-type: none"> ◆ up or down to select the CHANNEL. ◆ left or right to indicate the required required number.
Do not know the channel numbers	<ul style="list-style-type: none"> ◆ up or down to select the SEARCH. ◆ left or right to start the search.

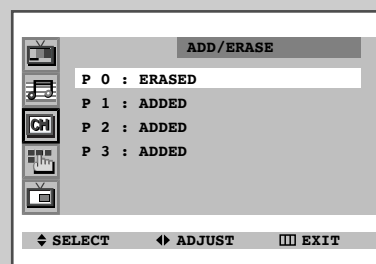
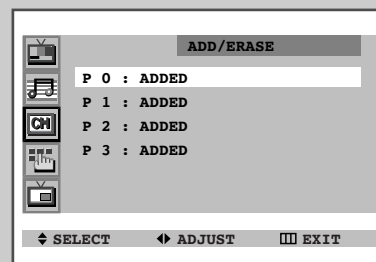
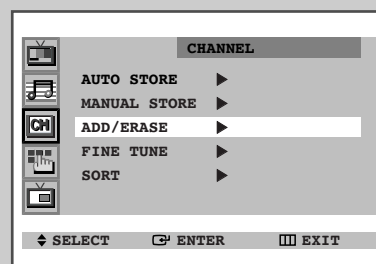
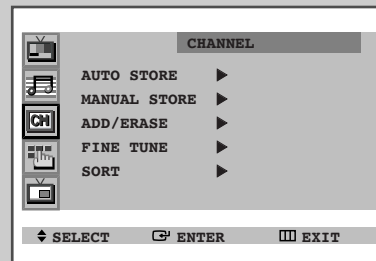
Result: The tuner scans the frequency range until the first channel or the channel that you selected is received on your screen.
- 7 To assign a programme number to the channel, select the **PROG.NO.** Move the joystick left or right until you find the correct number.
- 8 To store the channel and associated programme number, select the **STORE** and move the joystick left or right.
Result: **OK** is displayed.
- 9 Repeat Steps **6** to **8** for each channel to be stored.
- 10 When you have finished manual storage, press the **TV** button, or press the **MENU** button repeatedly to return to normal viewing.

Skipping Unwanted Channels

You can exclude the channels of your choice from the channel scan operation. When you scan through the stored channels, those you have chosen to skip are not displayed.

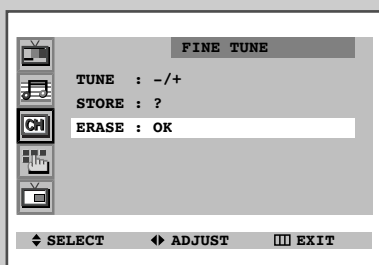
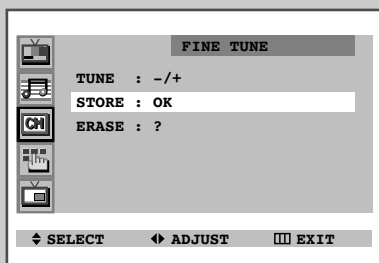
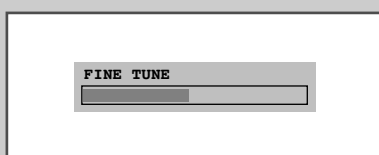
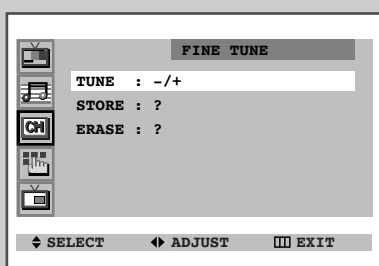
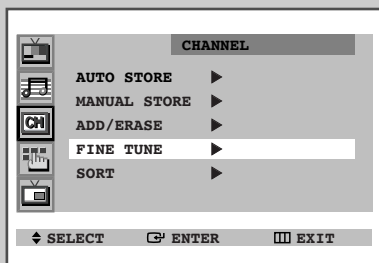
All channels that you do not specifically choose to skip are displayed during scanning.

- 1 Press the **MENU** button.
Result: The main menu is displayed.
- 2 Move the joystick up or down until the **CHANNEL** is selected and press the joystick (ENTER) button.
Result: The **CHANNEL** menu is displayed.
- 3 Move the joystick up or down until the **ADD/ERASE** is selected and press the joystick (ENTER) button.
Result: The **ADD/ERASE** menu is displayed.
- 4 Move the joystick up or down to select the required channel.
- 5 To add or erase the desired channel by moving the joystick left or right.
- 6 When you have finished adding and erasing channels, press the **TV** button, or press the **MENU** button repeatedly to return to normal viewing



Fine tuning Channel Reception

If the reception is clear, you do not have to fine-tune the channel, as this is done automatically during the search and store operation. If however the signal is weak or distorted, you may have to fine-tune the channel manually.



- 1 Press the **MENU** button.
Result: The main menu is displayed.
- 2 Move the joystick up or down until the **CHANNEL** is selected and press the joystick (**↵**) button.
Result: The **CHANNEL** menu is displayed.
- 3 Move the joystick up or down until the **FINE TUNE** is selected and press the joystick (**↵**) button.
Result: The **FINE TUNE** menu is displayed with the **TUNE** selected.
- 4

To...	Move the joystick...
obtain a sharp and clear picture and good sound quality	◆ left or right. <u>Result:</u> The horizontal bar's cursor moves to the left or right.
memorise adjusted picture or sound	◆ up or down to select the STORE . ◆ left or right. <u>Result:</u> OK is displayed.
erase adjusted picture or sound	◆ up or down to select the ERASE . ◆ left or right. <u>Result:</u> OK is displayed.
- 5 When you have finished, press the **TV** button, or press the **MENU** button repeatedly to return to normal viewing.

Sorting the Stored Channels

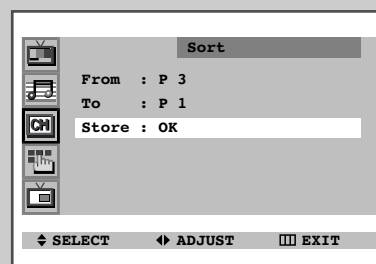
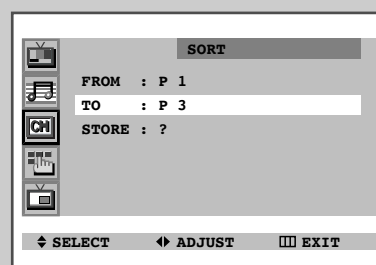
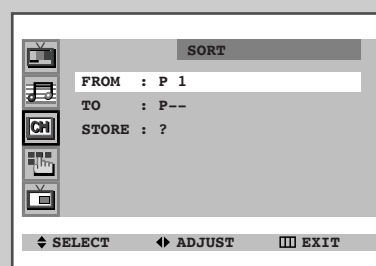
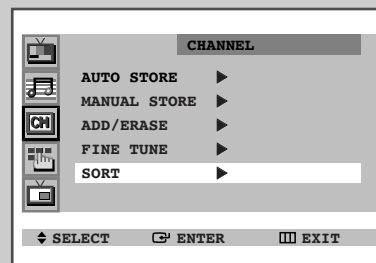
ENG

You can exchange the numbers of two channels, in order to:

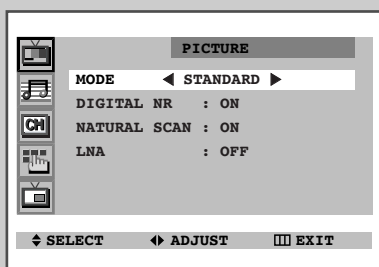
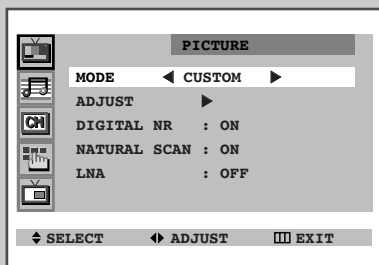
- ◆ *Modify the numeric order in which the channels have been automatically stored.*
- ◆ *Give easily remembered numbers to the channels that you watch most often.*

- 1 Press the **MENU** button.
Result: The main menu is displayed.
- 2 Move the joystick up or down until the **CHANNEL** is selected and press the joystick (ENTER) button.
Result: The **CHANNEL** menu is displayed.
- 3 Move the joystick up or down until the **SORT** is selected and press the joystick (ENTER) button.
Result: The **SORT** menu is displayed with the **FROM** selected.
- 4 Move the joystick left or right until the channel number that you wish to change is displayed.
Result: The selected channel's picture is displayed.
- 5 Move the joystick up or down to select the **TO**.
- 6 Move the joystick left or right until the new number by which you wish to identify the channel is displayed.
- 7

To...	Move the joystick...
Confirm the exchange of channel numbers	<ul style="list-style-type: none"> ◆ up or down to select the STORE. ◆ left or right.
	<p><u>Result:</u> OK is displayed. The selected channel is exchanged with the one previously stored to the chosen number.</p> <p><u>Example:</u> If you select P 1 for the FROM and P 3 for the TO:</p> <ul style="list-style-type: none"> ◆ Channel 1 becomes channel 3. ◆ Channel 3 becomes channel 1. <p>➤ You can exchange other channel numbers by selecting FROM and returning to step 4.</p>
- 8 When you have finished sorting channels, press the **TV** button, or press the **MENU** button repeatedly to return to normal viewing.



Changing the Picture Standard



You can select the type of picture which best corresponds to your viewing requirements. The following picture effects are available in the order given:

◆ **Natural, Mild, Custom, Standard, Sports.**

- 1 Press the **MENU** button.
- 2 Press the joystick () button to enter the **PICTURE** menu.
Result: The **PICTURE** menu is displayed with the **MODE** selected.
- 3 Select the required picture effect by moving the joystick left or right repeatedly.
- 4 When you are satisfied with the settings, press the **TV** button, or press the **MENU** button repeatedly to return to normal viewing.

You can use your remote control to select the type of picture which best corresponds to your viewing requirements.

To select the required picture effect, simply press the **P.STD** (Picture standard) button on the remote control.

Result: The following picture effects are available in the order given:

NATURAL → MILD → CUSTOM → STANDARD → SPORTS



Selecting the Picture Format



You can select the picture format which best corresponds to your viewing requirements by simply pressing the "P.SIZE" button.

The following picture formats are available (depending on the model);

- ◆ **NORMAL, WIDE, PANORAMA, ZOOM1, ZOOM2**
- ◆ **NORMAL, ZOOM1, ZOOM2**

➤ Picture format cannot be changed in the PIP mode.

Adjusting the Picture Settings

ENG

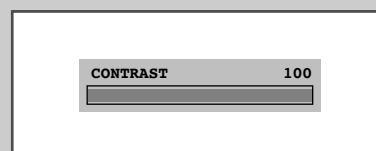
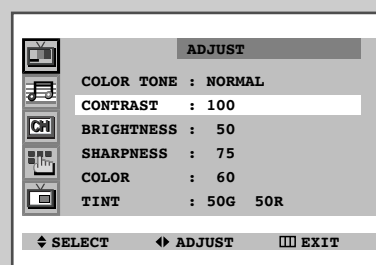
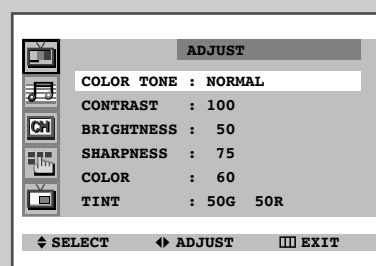
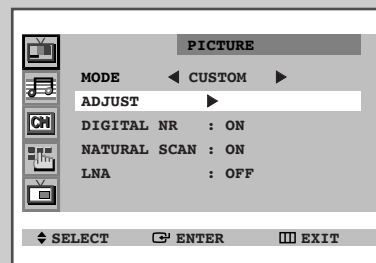
Your television has several settings which allow you to control picture quality:

- ◆ Color tone, Contrast, Brightness, Color, Sharpness, Tint (NTSC only)

- 1 Press the **MENU** button.
- 2 Press the joystick () button to enter the **PICTURE** menu.
- 3 Move the joystick up or down until the **ADJUST** is selected and press the joystick () button
Result: The **ADJUST** menu is displayed with the current option.
 ➤ When the **MODE** is set to **CUSTOM**, the **ADJUST** menu is displayed.
- 4

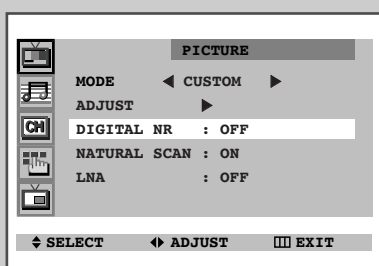
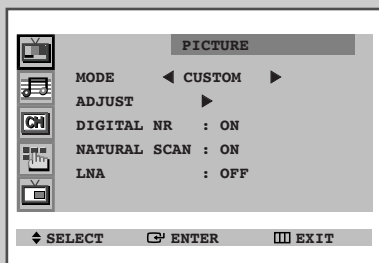
To adjust the...	Move the joystick...
◆ COLOR TONE	◆ left or right until the required option is (NORMAL , WARM1 , WARM2 , COOL1 , COOL2) displayed.
◆ CONTRAST	◆ left or right.
◆ BRIGHTNESS	<u>Result:</u> The horizontal bar is displayed.
◆ SHARPNESS	
◆ COLOR	
◆ TINT (NTSC only)	
- 5 When you are satisfied with the settings, press the **TV** button, or press the **MENU** button repeatedly to return to normal viewing.


- The television has an “automatic degaussing” system that is activated if magnetic interference is present. To degauss the television screen, switch power off by pressing the “I” (ON/OFF) button on the front panel (refer to “Automatic Degaussing To Remove Colour Patches” on page 45).
- If you make any changes to the **ADJUST** settings, the picture standard is automatically switched to **CUSTOM**.



Activating/Deactivating the Digital Noise Reduction Feature

If the broadcast signal received by your television is weak, you can activate the Digital Noise Reduction feature to help reduce any static and ghosting that may appear on the screen.

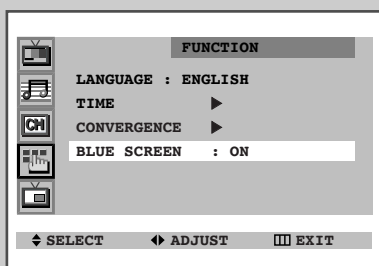



- 1 Press the **MENU** button.
- 2 Press the joystick () button to enter the **PICTURE** menu.
- 3 Move the joystick up or down to select the **DIGITAL NR**.
- 4 Select the required option (**ON/OFF**) by moving the joystick left or right.
- 5 When you have finished, press the **TV** button, or press the **MENU** button repeatedly to return to normal viewing.

Setting the Blue Screen Mode

If no signal is being received or the signal is very weak, a blue screen automatically replaces the noisy picture background.

If you wish to continue viewing the poor picture, you must set the "BLUE SCREEN" mode to "ON".

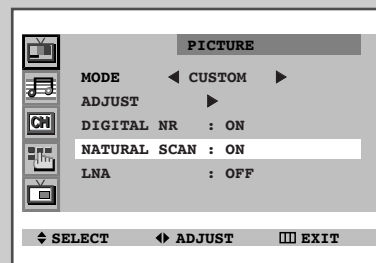


- 1 Press the **MENU** button.
Result: The main menu is displayed.
- 2 Move the joystick up or down until the **FUNCTION** is selected and press the joystick () button.
Result: The **FUNCTION** menu is displayed.
- 3 Move the joystick up or down to select the **BLUE SCREEN**.
- 4 Select the required option (**ON/OFF**) by moving the joystick left or right.
- 5 When you have finished, press the **TV** button, or press the **MENU** button repeatedly to return to normal viewing.

Using the Natural Scan Feature

You will normally find that Natural scan is best set to on to reduce any slight picture flicker. However, it is possible that some occasional broadcasts may benefit by selecting the off position.

- 1 Press the **MENU** button.
Result: The main menu is displayed.
- 2 Move the joystick up or down until the **PICTURE** is selected and press the joystick (**ENTER**) button.
Result: The **PICTURE** menu is displayed.
- 3 Move the joystick up or down to select the **NATURAL SCAN**.
- 4 Select the required option (**ON/OFF**) by moving the joystick left or right.
- 5 When you have finished, press the **TV** button, or press the **MENU** button repeatedly to return to normal viewing.

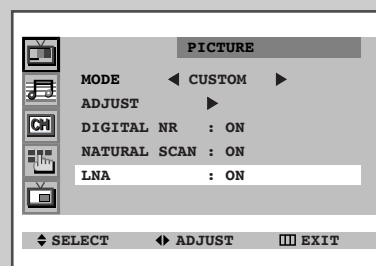


Using the LNA (Low Noise Amplifier) Feature

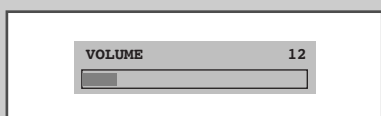
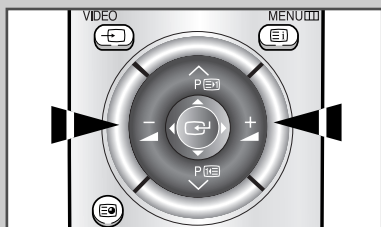
This function is very useful in the situation that the TV is used in weak signal. LNA amplifies the TV signal in the weak signal area, but not noise.

This function works only when a weak signal is received, and it keeps ON for the current channel even if you change the channel.

- 1 Press the **MENU** button.
Result: The main menu is displayed.
- 2 Move the joystick up or down until the **PICTURE** is selected and press the joystick (**ENTER**) button.
Result: The **PICTURE** menu is displayed.
- 3 Move the joystick up or down to select the **LNA**.
- 4 Select the required option (**ON/OFF**) by moving the joystick left or right.
- 5 When you have finished, press the **TV** button, or press the **MENU** button repeatedly to return to normal viewing.



Adjusting the Volume



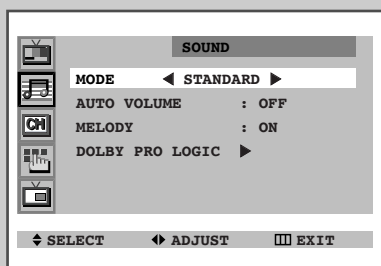
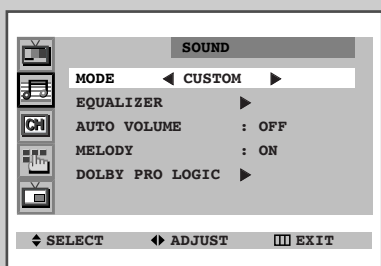
- ◆ Press the **+** button to increase the volume (cursor moves to the right)
- ◆ Press the **-** button to decrease the volume (cursor moves to the left)



The volume setting is retained:

- ◆ When you switch the television to standby mode
- ◆ When you switch the television off using the "I" (ON/OFF) button on the front panel
- ◆ If there is a power failure.

Changing the Sound Standard



You can select the type of special sound effect to be used when watching a given broadcast. The following sound effects are available in the order given:

- ◆ **Standard, Music, Movie, Speech, Custom.**

- 1 Press the **MENU** button.
Result: The main menu is displayed.
- 2 Move the joystick up or down until the **SOUND** is selected and press the joystick (**↕**) button.
Result: The **SOUND** menu is displayed with the **MODE** selected.
- 3 Select the required sound effect by moving the joystick left or right repeatedly.
- 4 When you are satisfied with the settings, press the **TV** button, or press the **MENU** button repeatedly to return to normal viewing.

You can use your remote control to select the type of special sound effect to be used when watching a given broadcast.

To select the required sound effect, simply press the **S.STD** (Sound standard) button on the remote control.

Result: The following sound effects are available in the order given:

STANDARD → MUSIC → MOVIE → SPEECH → CUSTOM

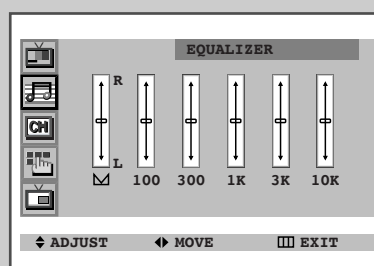
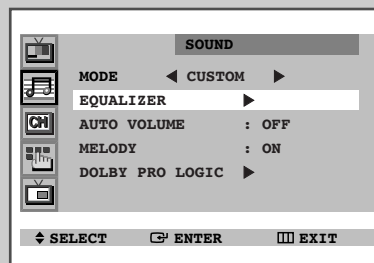


Adjusting the Sound Settings

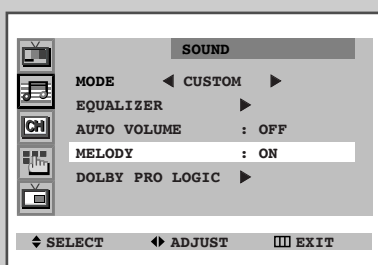
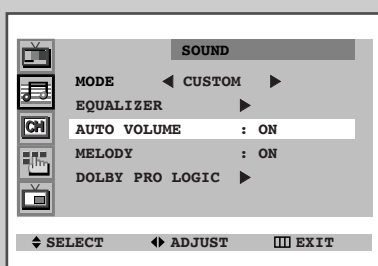
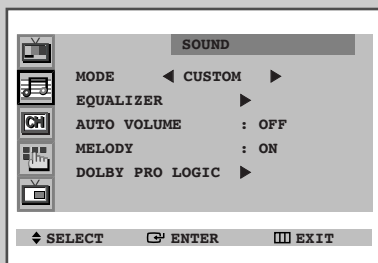
ENG

The sound settings can be adjusted to suit your personal preferences.

- 1 Press the **MENU** button.
Result: The main menu is displayed.
- 2 Move the joystick up or down until the **SOUND** is selected and press the joystick (ENTER) button.
Result: The **SOUND** menu is displayed.
- 3 Move the joystick up or down until the **EQUALIZER** is selected and press the joystick (ENTER) button.
Result: The **EQUALIZER** menu is displayed.
➤ When the **MODE** is set to **CUSTOM**, the **EQUALIZER** menu is displayed.
- 5 Select the required option and adjust to satisfy your preference.
- 6 When you are satisfied with the settings, press the **TV** button, or press the **MENU** button repeatedly to return to normal viewing.



Extra Sound Settings



The following sound settings can be adjusted to suit your personal preferences.

◆ AUTO VOLUME

Each broadcasting station has its own signal conditions, and so it is not easy for you to adjust the volume every time the channel is changed. **AUTO VOLUME** lets you automatically adjust the volume of the desired channel by lowering the sound output when the modulation signal is high or by raising the sound output when the modulation signal is low.

◆ MELODY

You can hear clear melody sound when the TV is powered ON or OFF.

- 1 Press the **MENU** button.
Result: The main menu is displayed.
- 2 Move the joystick up or down until the **SOUND** is selected and press the joystick () button.
Result: The **SOUND** menu is displayed.
- 3

To...	Move the joystick...
Change an option	up or down.
Select the required option (ON/OFF)	left or right.
- 4 When you are satisfied with the settings, press the **TV** button, or press the **MENU** button repeatedly to return to normal viewing.

Setting the Dolby ProLogic

You can enjoy Dolby prologic surround effect fully with only surround speakers are connected to TV.

This allows various modes for the main, center and rear speakers to be selected.

Surround Mode	Input Signal	Speakers		
		Main	Centre	Rear
NORMAL	Stereo	✓	✓	✓
	Mono		✓	
PHANTOM	Stereo	✓		✓
	Mono	✓		
WIDE	Stereo	✓	✓	✓
	Mono		✓	
OFF	Stereo	✓		
	Mono	✓		

➤ ✓ ; Sound

- 1 Press the **MENU** button.
Result: The main menu is displayed.
- 2 Move the joystick up or down until the **SOUND** is selected and press the joystick (ENTER) button.
Result: The **SOUND** menu is displayed.
- 3 Move the joystick up or down until the **DOLBY PRO LOGIC** is selected and press the joystick (ENTER) button.
Result: The **DOLBY PRO LOGIC** menu is displayed with the **MODE** selected.
- 4 Select the required mode (**OFF**, **NORMAL**, **PHANTOM**, **WIDE**) by moving the joystick left or right.

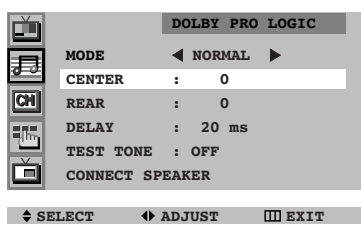
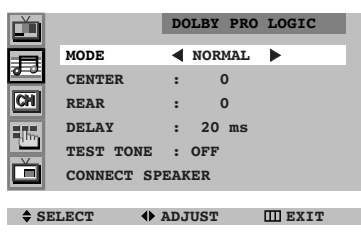
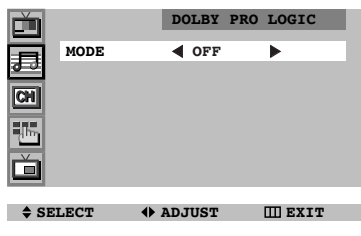
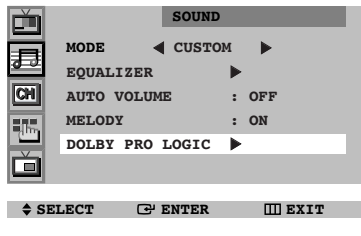
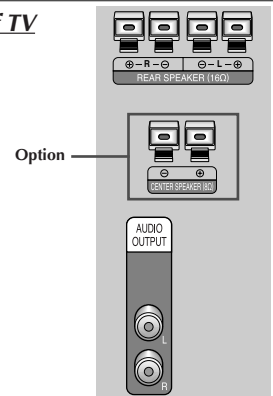
The following Dolby settings can be adjusted to suit your personal preferences.

- ◆ Volume of the centre and rear speakers
- ◆ Prologic delay time for the rear speakers (between 15 and 30 ms)
- ◆ Activation/deactivation of the test tone to simulate the volume on each speaker

- 5 To... Move the joystick...
Change a setting up or down.
Change the option left or right.
- 6 When you are satisfied with the settings, press the **TV** button, or press the **MENU** button repeatedly to return to normal viewing.

ENG

Rear of TV



Selecting the Sound Mode (depending on the model)

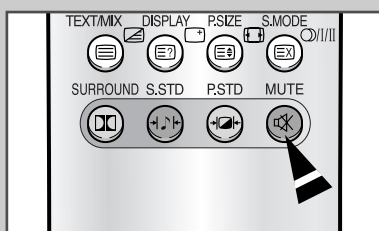


The "S.MODE" button displays/controls the processing and output of the audio signal. When power is switched ON, the mode is automatically preset to either "Dual-I" or "Stereo", depending on the current transmission.




	Type of broadcast	On-screen indication
NICAM Stereo	Regular broadcast (Standard audio)	Mono (Normal use)
	Regular + NICAM Mono	Mono ↔ Mono Nicam (Normal)
	NICAM Stereo	Stereo ↔ Mono Nicam (Normal)
	NICAM Dual-I/II	Dual-I → Dual-II → Mono Nicam Nicam (Normal) ↑—————↑
A2 Stereo	Regular broadcast (Standard audio)	Mono (Normal use)
	Bilingual or Dual-I/II	Dual-I ↔ Dual-II
	Stereo	Stereo ↔ Mono (Forced Mono)

- ◆ If the receiving conditions deteriorate, listening will be easier if the mode is set to the “Mono” position using the **S.MODE** button.
- ◆ If the stereo signal is weak (or if intermittent Stereo-Mono) and automatic switching occurs, then switch to the “Mono” mode.
- ◆ When receiving mono sound in the AV mode, connect to the “L” input jack on the panels. If the mono sound comes out only from the left speaker, then press the **S.MODE** button.

Switching the Sound Off Temporarily



You can switch the sound off temporarily, for example you may wish to answer the telephone.

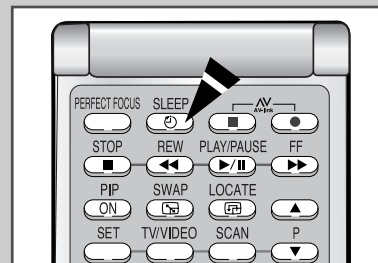
-
- 1** Press the **MUTE**  button.
- Result: The sound is switched off and “” is displayed.
-
- 2** When you wish to turn the sound back on at the same volume as before, press the **MUTE**  button again (or either of the volume buttons).

Setting the Sleep Timer

You can select a time period of between 30 and 180 minutes after which the television automatically switches to Standby mode by pressing the "SLEEP" button.

- Press the **SLEEP** button on the remote control.
Result:

If the sleep timer is...	The screen displays...
Already set	Time remaining before the television will be placed in standby mode.
Not yet set	Word OFF .
- Press the **SLEEP** button repeatedly and cycle through the preset time intervals (30, 60, 90, 120, 150, 180).
Result: The television automatically switches to standby mode when the timer reaches 0.
- To cancel the sleep timer function, press the **SLEEP** button repeatedly and select **OFF**.

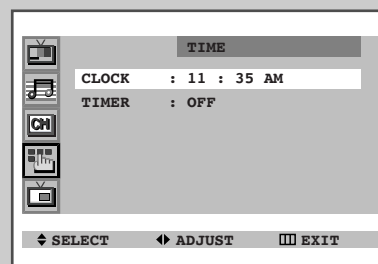
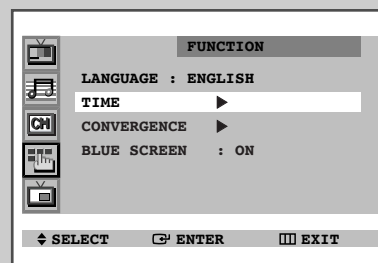


Setting and Displaying the Current Time

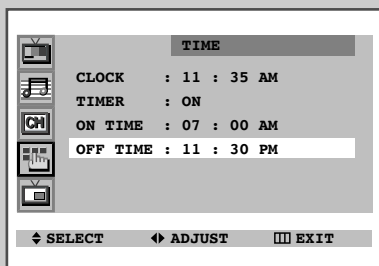
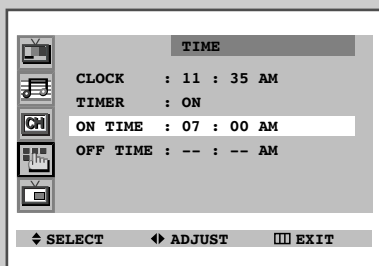
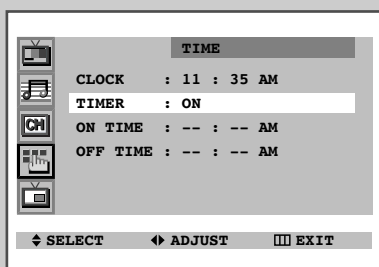
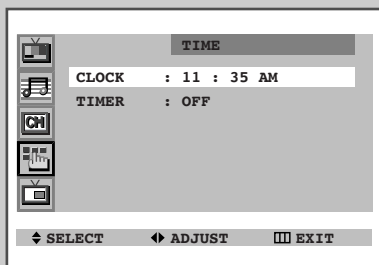
You can set the television's clock so that the current time is displayed when you press the "DISPLAY" button. You must also set the time if you wish to use the automatic On/Off timers.

- The clock will be re-set when pressing the "I" (ON/OFF) button on the front panel.

- Press the **MENU** button.
Result: The main menu is displayed.
- Move the joystick up or down until the **FUNCTION** is selected and press the joystick button.
Result: The **FUNCTION** menu is displayed.
- Move the joystick up or down until the **TIME** is selected and press the joystick button.
Result: The **TIME** menu is displayed with the **CLOCK** selected.
- | To... | Move the joystick... |
|----------------------------|----------------------|
| Move to the hour or minute | left or right. |
| Set the hour or minute | up or down. |
- When you have finished, press the **TV** button, or press the **MENU** button repeatedly to return to normal viewing.
- | To display the... | Press the "DISPLAY" button... |
|---------------------|-------------------------------|
| Channel information | Once. |
| Current time | Twice. |
- To remove the display, press the **DISPLAY** button again.





Switching the Television On and Off Automatically



You can set the On/Off timers so that the television will:

- ◆ Switch on automatically and tune to the channel of your choice at the time you select
- ◆ Switch off automatically at the time you select

➤ The first step is to set the television's clock (refer to "Setting and Displaying the Current Time" on the previous page). If you have not yet set the clock, the message **SET THE CLOCK FIRST** is displayed.


- 1 Press the **MENU** button.
Result: The main menu is displayed.
- 2 Move the joystick up or down until the **FUNCTION** is selected and press the joystick () button.
Result: The **FUNCTION** menu is displayed.
- 3 Move the joystick up or down until the **TIME** is selected and press the joystick () button.
Result: The **TIME** menu is displayed.
- 4 Move the joystick up or down to select the **TIMER**.
- 5 Set the mode to **ON** by moving the joystick left or right.
Result: The **ON TIME** and **OFF TIME** options are displayed.
- 6 Move the joystick up or down to select the **ON TIME**.
- 7 Set the time at which you wish the television to be switched On.

To...	Move the joystick...
Move to the hour or minute	left or right.
Adjust the hour or minute	up or down.
- 8 In the same way, set the time at which you wish the television to be switched Off.
- 9 When you have finished setting the On/Off time, press the **TV** button, or press the **MENU** button repeatedly to return to normal viewing.

Setting up your Remote Control

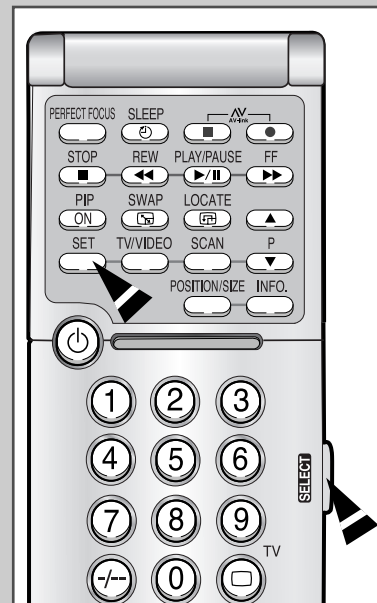
This TV's remote control can operate almost any Cable box, VCR, or DVD, in addition to controlling the TV.

- The remote control might not be compatible with the TV manufactured by another company.

- 1 Turn off your Cable box, VCR, or DVD.
- 2 Press the **SELECT** button and make sure that the **CABLE** or **VCR/DVD** LED is illuminated.
 - The remote control has four modes: **TV**, **PC**, **CABLE** and **VCR/DVD**. Press the **SELECT** button to switch the remote control to the **CABLE** or **VCR/DVD** mode.
- 3 Press the **SET** button.
- 4 Enter 3 digits of the Cable box, VCR, or DVD code listed for your brand of Cable box, VCR, or DVD.
 - Make sure you enter 3 digits of the code, even if the first digit is a "0." If more than one code listed, try the first one.
- 5 Press the **POWER**  button on the remote control. Your Cable box, VCR, or DVD should turn on. If they turn on, your remote control is now set correctly.
 - If your Cable box, VCR, or DVD does not turn on, repeat steps 2, 3, and 4, but try one of the other codes listed for the brand of particular yours. If no other codes are listed, try each code, 000 through 089 for VCR/DVD and 000 through 077 for Cable box.
- 6 Once your remote control is set up, press the **SELECT** button any time you want to use the remote to operate your Cable box, VCR or DVD.
 - ♦ When your remote control is in the **CABLE** or **VCR/DVD** mode, the volume buttons still control your TV's volume.
 - ♦ When your remote control is in the **TV** or **CABLE** mode, the VCR control buttons (PLAY, PAUSE, etc.) still operate your VCR.

Cable Box Codes	
GI	000 001 002
SA	003 004 005
TOCOM	006
PIONEER	007 008
ZENITH	009 010

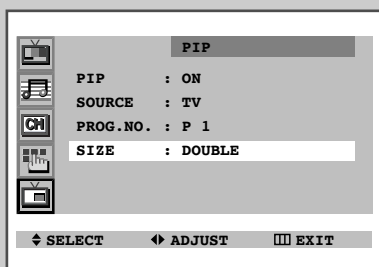
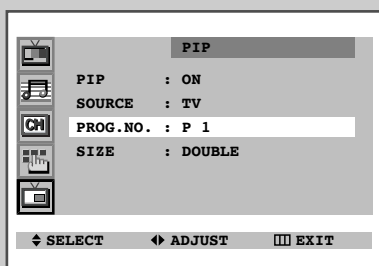
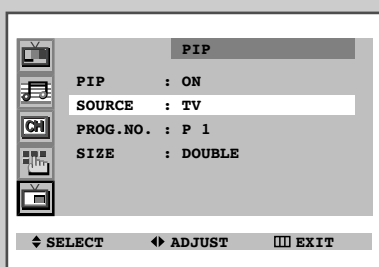
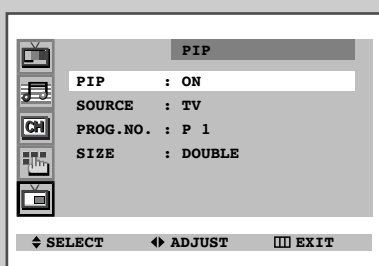
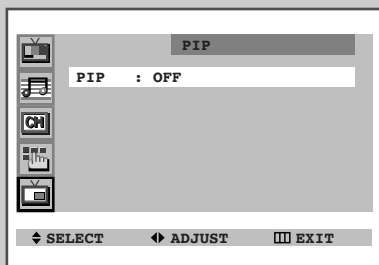
DVD Codes	
DENON	059 000
PANASONIC	060 001
PHILIPS	061 002
PIONEER	062 003
SAMSUNG	063 004
SONY	064 005
THOMSON	065 006
TOSHIBA	066 007



VCR Codes	
AIWA	000 001
AKAI	002 003 004 005 006
BLAUPUNKT	007 008 009
DAEWOO	010 011 012 013 014 015 016
FERGUSON	017 018
FISHER	019 020
FUNAL	021
HITACHI	022 023 024 025
JVC	026 027
LG	028
MITSUBISHI	029 030
MORDMENDE	031
NEC	032
KONIA	033
ORION	034 035 036 037
RADIOLA	038 039 040 041 042
SABA	043 044 045 046
SAMSUNG	047
SANYO	048 049 050
SHARP	051 052
SONY	053 054 055 056
TELEFUNKEN	057
TOSHIBA	058

ENG

Picture In Picture (continued...)



You can display a “Picture-In-Picture screen” within the main picture of TV program or Video input. In this way you can watch or monitor TV program or the Video input from any connected equipment while watching TV or other Video input. For information about connection of other equipment, see pages 42~43.

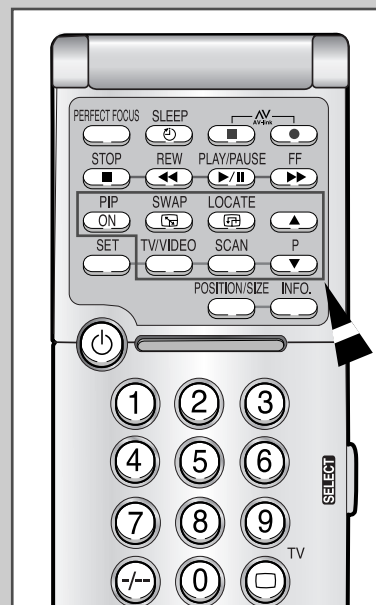
- 1 Press the **MENU** button.
Result: The main menu is displayed.
 - 2 Move the joystick up or down until the **PIP** is selected and press the joystick () button.
Result: The **PIP** menu is displayed.
 - 3 Set to **ON** by moving the joystick left or right.
 - 4 Move the joystick up or down until the **SOURCE** is selected and move the joystick left or right repeatedly.
Result: The sources of sub picture are displayed in the following order.
TV → AV1 → S-VIDEO1 → AV2 → AV3 → S-VIDEO2 → AV4
↑
 - 5 Move the joystick up or down to select the **PROG.NO.**
 - 6 Select the channel that you want to view through sub picture by moving the joystick left or right.
 - 7 Move the joystick up or down until the **SIZE** is selected and move the joystick left or right repeatedly.
Result: The types of sub picture are displayed in the following order.
DOUBLE → LARGE → SMALL
↑
- If a different color system (NTSC/PAL) is received when viewing double picture, the sub picture automatically becomes smaller in size and may not be soft.
- 8 When you have finished, press the **TV** button, or press the **MENU** button repeatedly to return to normal viewing.

Picture In Picture

ENG

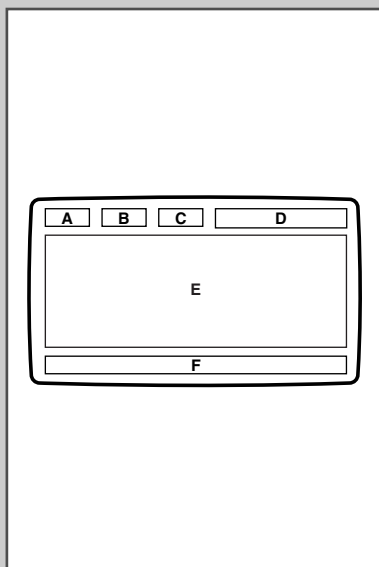
Remote-control functions while “PIP” is “On”:

Features	Description
PIP ON	Used to operate ON/OFF function of PIP directly.
SWAP	Used to interchange the main picture and the sub picture. ➤ When the main picture is in the Video mode and the sub picture is in the TV mode, you might not hear the sound of main picture when pressing the SWAP button after changing the sub picture channel. At this time, reselect the main picture channel.
LOCATE	Used to move the sub picture counterclockwise.
P ▼/▲	Used to select the channel of sub picture.
TV/VIDEO	Used to assign a source of sub picture (TV , AV1 , S-VIDEO1 , AV2 , AV3 , S-VIDEO2 , AV4).
SCAN	Used to scan every memorized channel in order. To stop scanning, press it again.



Teletext Feature (depending on the model)

ENG



Most television channels provide a written information service via Teletext. Information provided includes:

- ◆ *Television programme times*
- ◆ *News bulletins and weather forecasts*
- ◆ *Sports results*
- ◆ *Travel information*

This information is divided into numbered page (see diagram).

Part	Contents
A	Selected page number.
B	Current page number or search indications.
C	Broadcasting channel identity.
D	Date and time.
E	Text.
F	Status information. FASTEXT information.

- Teletext information is often divided between several pages displayed in sequence, which can be accessed by:
- ◆ Entering the page number
 - ◆ Selecting a title in a list
 - ◆ Selecting a coloured heading (FASTEXT system)

Displaying the Teletext Screen

ENG

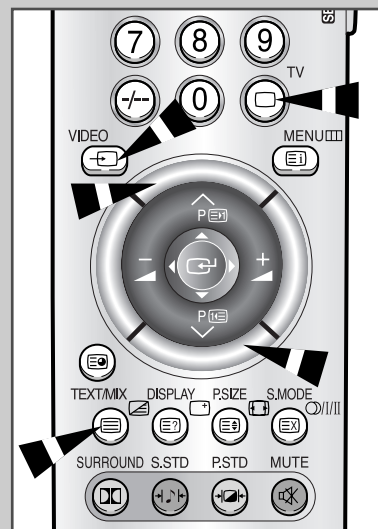
You can display Teletext information at any time on your television.

- ☞ For Teletext information to be displayed correctly, channel reception must be stable; otherwise:
 - ◆ Information may be missing
 - ◆ Some pages may not be displayed

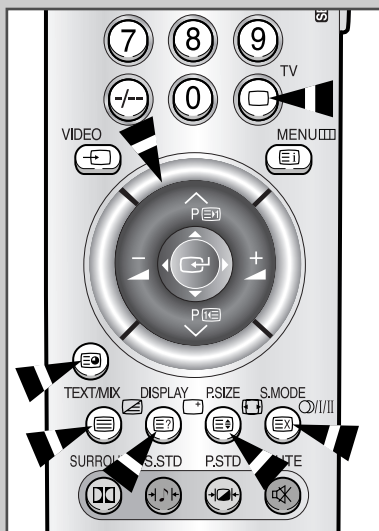
To activate the Teletext mode and display the contents page, follow the instructions below.

- 1 Select the channel providing the Teletext service using the **P** or **P** buttons or the **VIDEO** button ().
- 2 Press the **TEXT/MIX** button to activate the Teletext mode.
Result: The contents page is displayed.
- 3 If you wish to display the actual broadcast at the same time as the Teletext page, press the **TEXT/MIX** button again.
- 4 When you have finished, press the **TV** button to continue viewing normally.

- A message box containing the words “No Text Transmission” will be displayed if the selected channel does not carry a Teletext signal.



Selecting Display Options



When you have displayed a Teletext page, you can select various options to suit your requirements.

To display...	Press the...
Both the Teletext information and the normal broadcast	TEXT/MIX.
◆ Hidden text (answers to quiz games, for example)	[REVEAL] (reveal).
◆ The screen normally again	[REVEAL] (reveal) again.
A secondary page by entering its number	[PAGE NO.].
The broadcast when searching for a page	[EXIT].
The next page	[NEXT] (P ^).
The previous page	[PREV] (P v).
◆ In letters the upper or lower half of the page	[SIZE] (size) repeatedly.
◆ To a full page	

➤ To return to the normal display after using the reveal or size features, press the **TV** button again.

Selecting a Teletext Page

ENG

You can enter the page number directly by pressing the numeric buttons on the remote control.


- 1 Enter the three-digit page number given in the contents, by pressing the corresponding numeric buttons.


Result: The current page number is incremented until the requested page is reached. That page is then displayed. If the selected page is linked with several secondary pages, the secondary pages are displayed in turn.

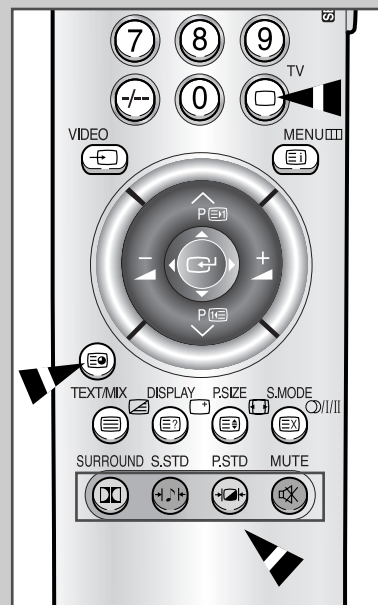
- 2 If the FASTEXT system is used by the broadcasting company, the different topics covered on a Teletext page are color-coded and can be selected by pressing the coloured buttons on the remote control.

Press the coloured button corresponding to the topic that you wish to select; the available topics are given on the status line.

Result: The page is displayed with other colored information that can be selected in the same way.

3 To display the...	Press the...
Previous/Next page	Corresponding colored button.
Subpage	<ol style="list-style-type: none"> 1.  button. ➤ The available subpages are appeared. 2. Select the required subpage.

- 4 When you have finished, press the **TV**  button again to return to your normal broadcast.



Setting up your PC (depending on the model)

How to Set up Your PC Software (Windows only)

The Windows display-settings for a typical computer are shown below. But the actual screens on your PC will probably be different, depending upon your particular version of Windows and your particular video card.

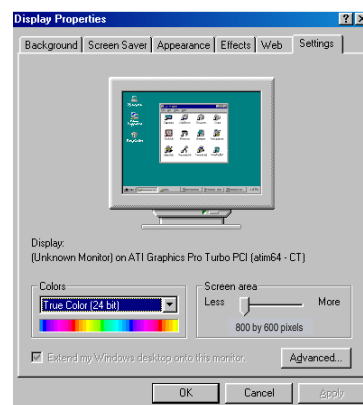


First, click on "Settings" on the Windows start menu.

While "Settings" is highlighted, move the cursor so that "Control Panel" is highlighted.

When the control panel screen appears, click on "Display" and a display dialog-box will appear.

Navigate to the "Settings" tab on the display dialog-box.



- Both screen position and size will vary, depending on the type of PC monitor and its resolution.

Resolution	Vertical frequency resolution
640 x 480	75/60
800 x 600	75/72/60

- ◆ The interlace mode is not supported.
- ◆ The TV operates abnormally if a non-standard video format is selected.

The two key variables that apply the TV-PC interface are "resolution" and "colors." The correct settings for these two variables are:

- ◆ Size (resolution): 800 x 600 pixels
- ◆ Color: "24-bit" color (might also be expressed as "16 million colors") Shown at left is a typical screen for "Display" dialog box.

If a vertical-frequency option exists on your display settings dialog box, the correct value is "60" or "60 Hz". Otherwise, just click "OK" and exit the dialog box.

-
- ◆ **The text quality of PC screen is optimum in the VGA mode (640 x 480), the full size displayed PC mode is optimum in the SVGA mode (800 x 600).**
 - ◆ When this TV is used as a PC display, 24-bit color is supported (over 16 million colors).
 - ◆ Your PC display screen might appear different, depending on the manufacturer (and depending on your particular version of Windows). Check your PC instruction book for information about connecting your PC to a TV display-monitor.
 - ◆ If a vertical and horizontal frequency-select mode exists, select 60Hz (vertical) and 31.5kHz (horizontal).
 - ◆ In some cases, abnormal signals (such as stripes) might appear on the screen when the PC power is turned off (or if the PC is disconnected). If so, press the **TV** button to enter the TV mode. Also, make sure that the PC is connected.
 - ◆ If a phenomenon with an unstable horizontal sync happens while using your PC, please check the power saving mode and power condition of PC and cable connections.

Changing the Screen Size or Position of your PC

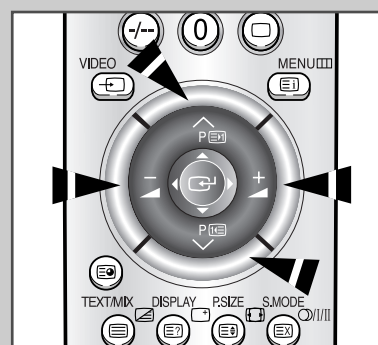
ENG

You can set up the size or position of the screen which best corresponds to your viewing requirements by simply moving the joystick of the remote control.

- 1 Press the **SELECT** button to select PC mode.
Result: The PC mode LED illuminates.
- 2 Press the **POSITION/SIZE** button.
➤ Repeatedly pressing the **POSITION/SIZE** button alternates between position control and size control.
- 3

To expand or compress the image...	Press the...
Horizontally	✓ or ^ button.
Vertically	- or + button.
- 4

To move the image...	Press the...
Up or down	✓ or ^ button.
Left or right	- or + button.

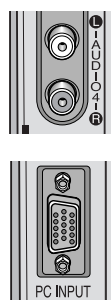


Connecting to the PC Input (depending on the model)

Front of TV



Side of TV



and



Personal Computer

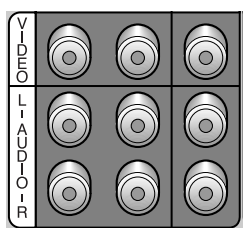
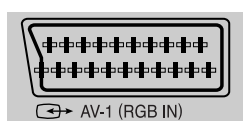


- ♦ The PC INPUT/RCA(AUDIO-L+R) connectors are used for interfacing with your PC.
- ♦ Only black signal is output from a monitor in PC mode.

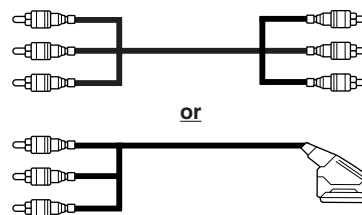
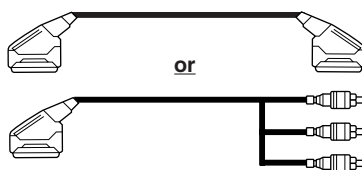
Connecting to the AV Input/Outputs (depending on the model)

- ◆ The AV connectors on the rear of the television are used for equipment with an AV output, such as video games, video disc players or VCR.
- ◆ For a Mono VCR, connect to the AUDIO-L.

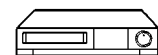
Rear of TV



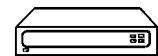
AV cable



VCR



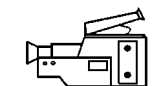
Decoder/
Video game device



Video disc player



Camcorder

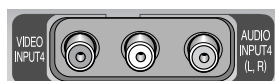


Satellite receiver



Connecting to the AV Input (depending on the model)

Front of TV



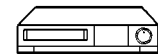
Side of TV



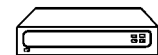
- ◆ The RCA (VIDEO + AUDIO-L and R) connectors are used for equipment such as VCR, camcorders, video disc players and some video game devices.
- ◆ For a Mono VCR, connect to the AUDIO-L.



VCR



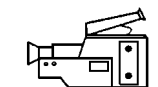
Decoder/
Video game device



Video disc player

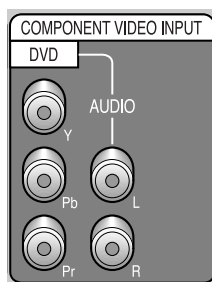


Camcorder

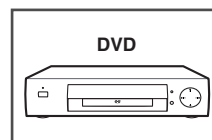
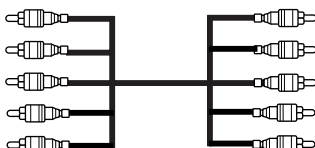


Connecting to the DVD Input

Rear of TV



- The DVD/RCA (AUDIO-L and R) connectors are used for equipment with a DVD output.



Connecting to the S-Video Input (depending on the model)

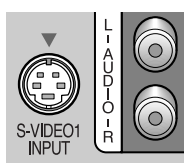
Front of TV



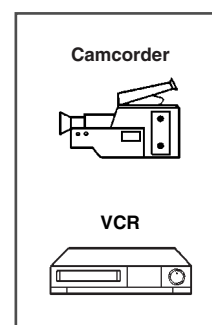
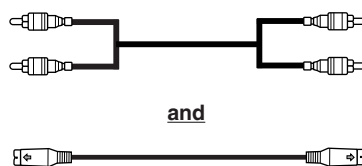
Side of TV



Rear of TV



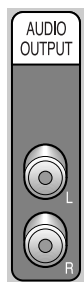
- ♦ The S-VIDEO/RCA (AUDIO-L and R) connectors are used for equipment with an S-VIDEO output, such as a camcorder or VCR.
- ♦ For a Mono VCR, connect to the AUDIO-L.



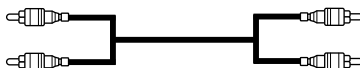
- To playback pictures and sound both the S-VIDEO and the RCA (AUDIO-L and R) connections must be used.

Connecting to the Audio Output

Rear of TV



- The AUDIO OUTPUT RCA connectors are used for equipment, such as an audio system (to take full advantage of the Surround sound effect).



Audio system



- See the page 29 for further details on "Setting the Dolby ProLogic".

Viewing Pictures From External Sources



Once you have connected up your various audio and video systems, you can view the different sources by selecting the appropriate input.

- 1 Check that all the necessary connections have been made.
- 2 Switch the television on and if necessary, press the **VIDEO** button one or more times until the required input is displayed.

- Depending on the source selected, the pictures may appear automatically.

- To watch television programmes again, press the **TV** button and select the number of the channel required.

Automatic Degaussing to Remove Colour Patches

ENG

A degaussing coil is mounted around the picture tube, so you do not normally need to degauss the television manually.

If you move the television to a different position and color patches appear on the screen, you must:

- ◆ Switch the television off by pressing the "I" (ON/OFF) button on the front panel
- ◆ Unplug the television from the wall socket
- ◆ Leave the television power-off (stand-by) for about 30 minutes so that the automatic degauss function can be activated, and then press the **POWER** button on the remote control.



If your television will be left unattended, press the "I" (ON/OFF) button to turn your television off.

Troubleshooting: Before Contacting Service Personnel

Before contacting Samsung after-sales service, perform the following simple checks.

If you cannot solve the problem using the instructions below, note the model and serial number of the television and contact your local dealer.

No sound or picture	<ul style="list-style-type: none">◆ Check that the mains lead has been connected to a wall socket.◆ Check that you have pressed the "I" (ON/OFF) button.◆ Check the picture contrast and brightness settings.◆ Check the volume.
Normal picture but no sound	<ul style="list-style-type: none">◆ Check the volume.◆ Check whether the MUTE button has been pressed on the remote control.
No picture or black and white picture	<ul style="list-style-type: none">◆ Adjust the colour settings.◆ Check that the broadcast system selected is correct.
Sound and picture interference	<ul style="list-style-type: none">◆ Try to identify the electrical appliance that is affecting the television and move it further away.◆ Plug your television into a different mains socket.
Blurred or snowy picture, distorted sound	<ul style="list-style-type: none">◆ Check the direction, location and connections of your aerial. This interference is often due to the use of an indoor aerial.
Remote control malfunctions	<ul style="list-style-type: none">◆ Replace the remote control batteries.◆ Clean the upper edge of the remote control (transmission window).◆ Check the battery terminals.

Memo

ENG

Memo

ENG

– AFTER SALES SERVICE

- Do not hesitate to contact your retailer or service agent if a change in the performance of your product indicates that a faulty condition may be present.

